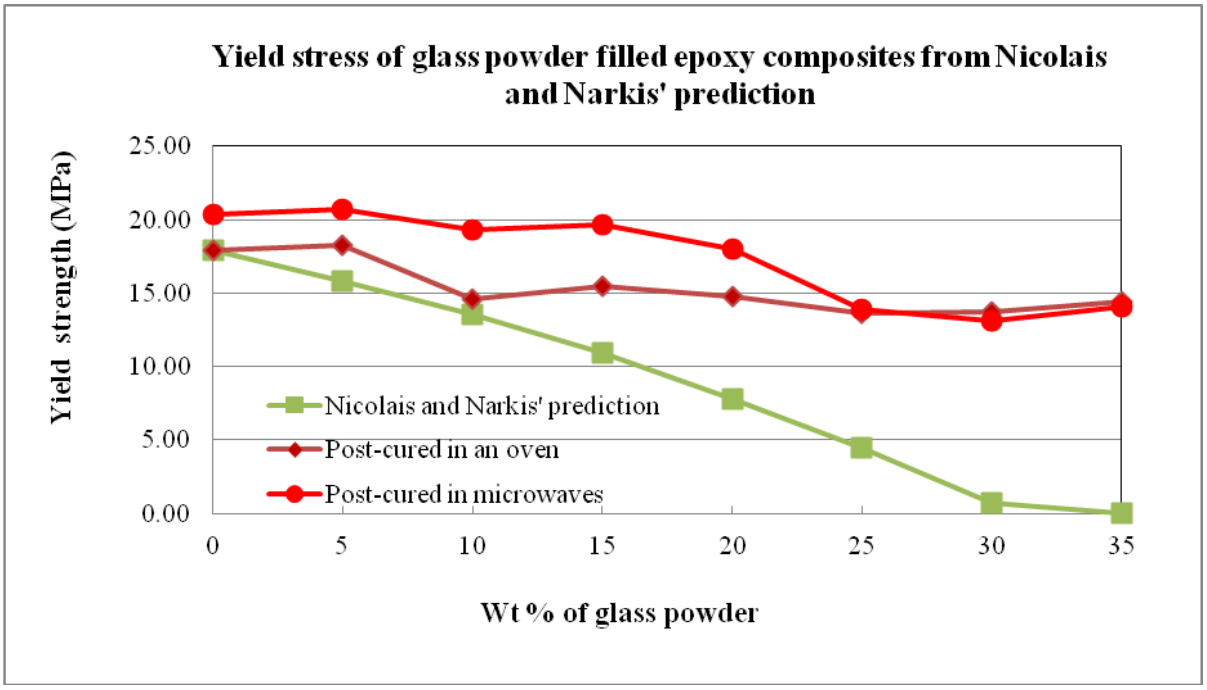

Figure 1: Values of yield strength of the composites obtained from Nicolais and Narkis' prediction and experiments

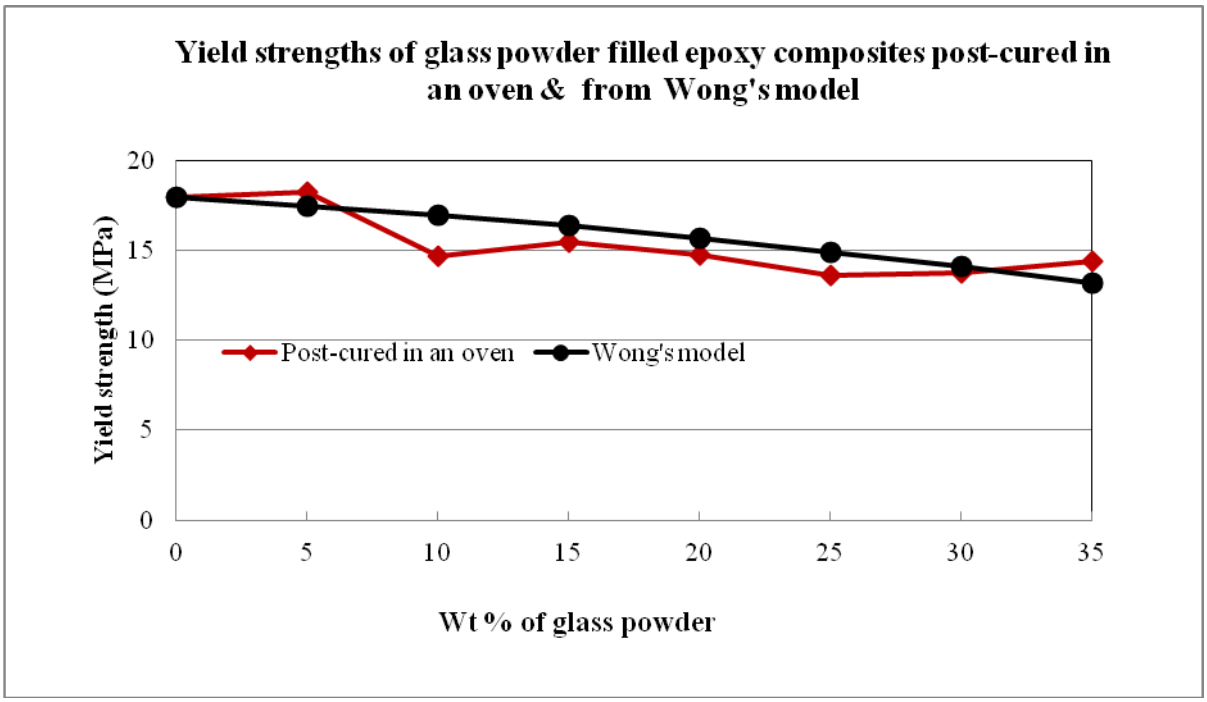

Figure 2: The yield strengths of glass powder filled epoxy composites post-cured in an oven and from Wong's model

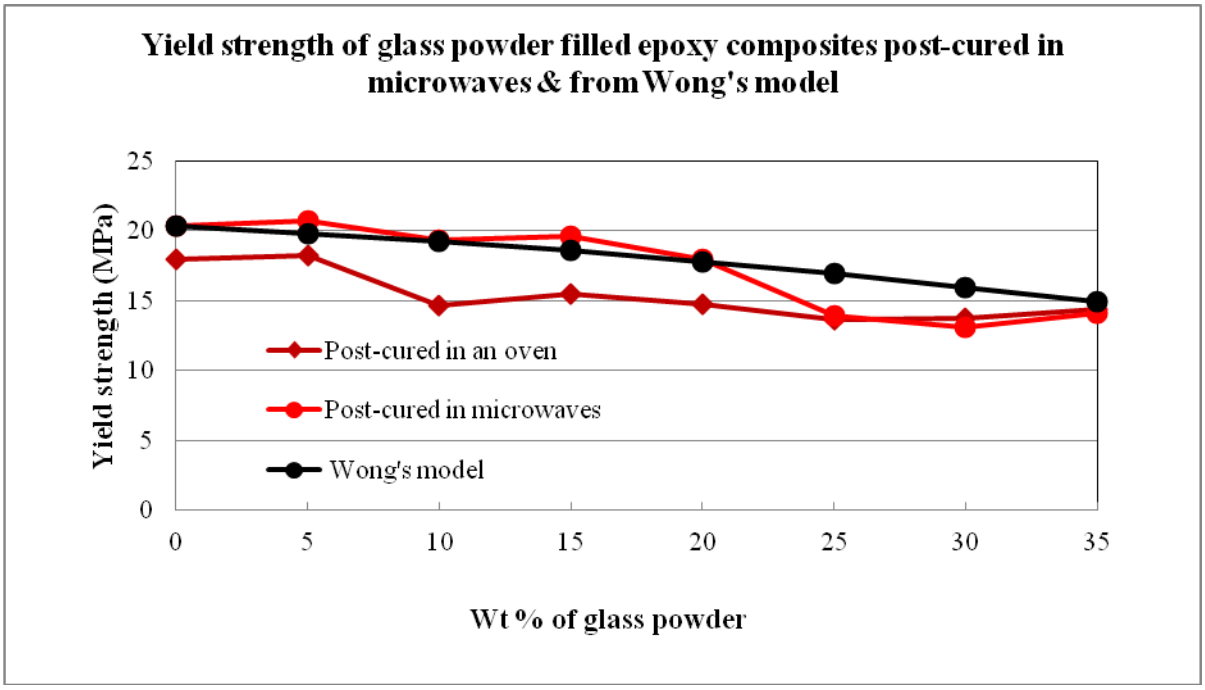

Figure 3: yield strengths of glass powder filled epoxy composites post-cured in microwaves and from Wong's model

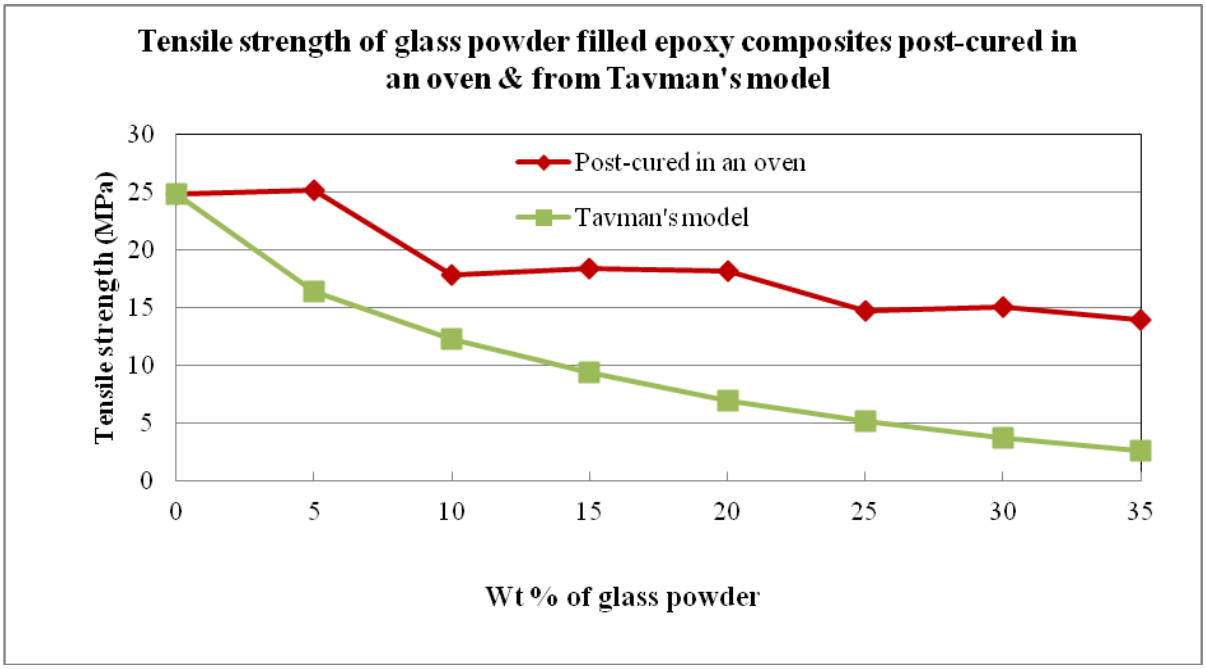

Figure 4: Tensile strengths of glass powder filled epoxy composites post-cured in an oven and from Tavman's model

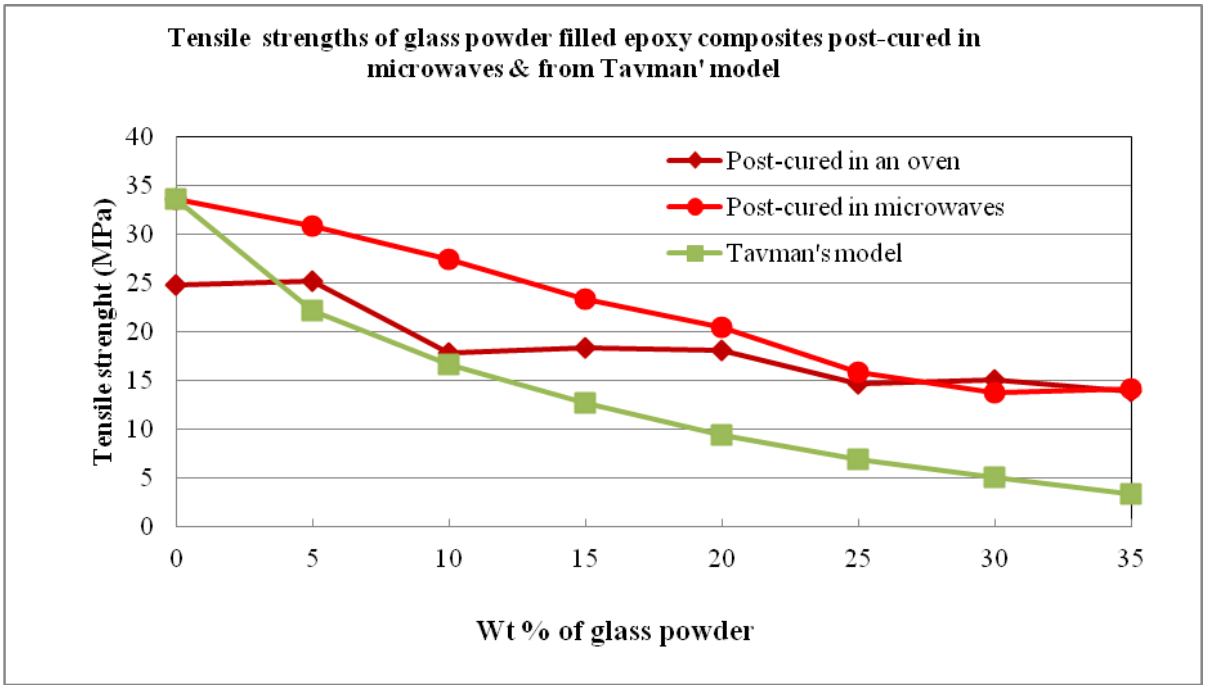

Figure 5: Tensile strengths of glass powder filled epoxy composites post-cured in microwaves and from Tavman's model

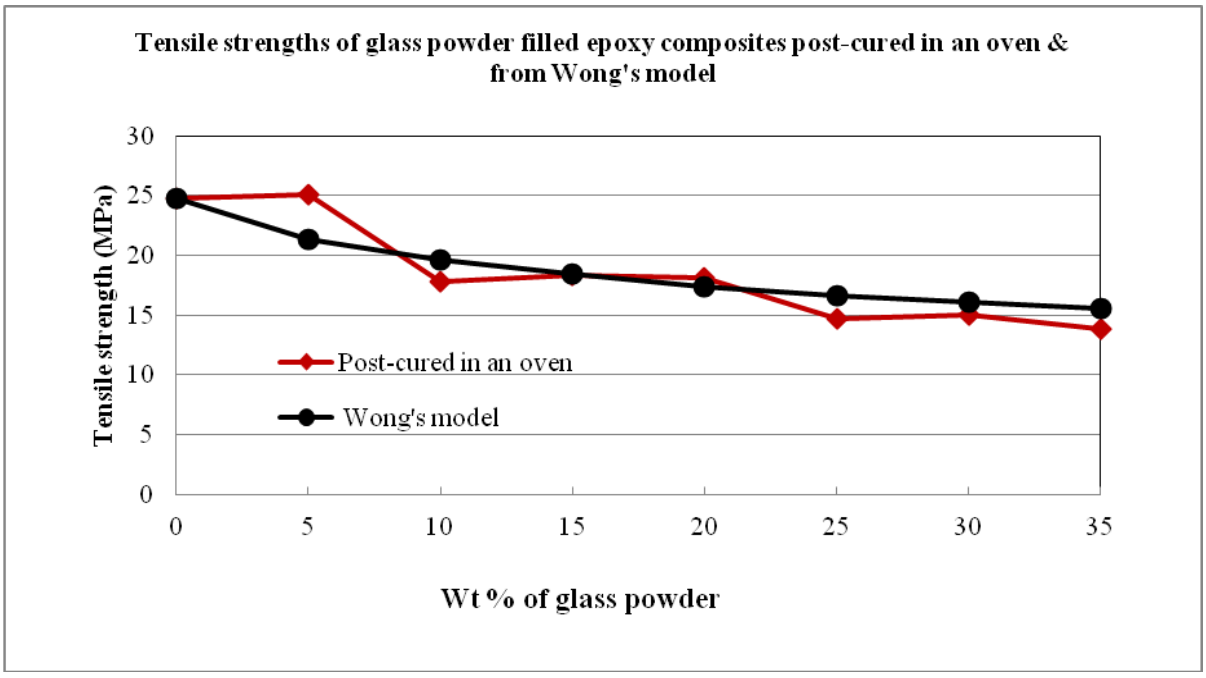

Figure 6: Tensile strengths of glass powder filled epoxy composites post-cured in an oven and from Wong's model

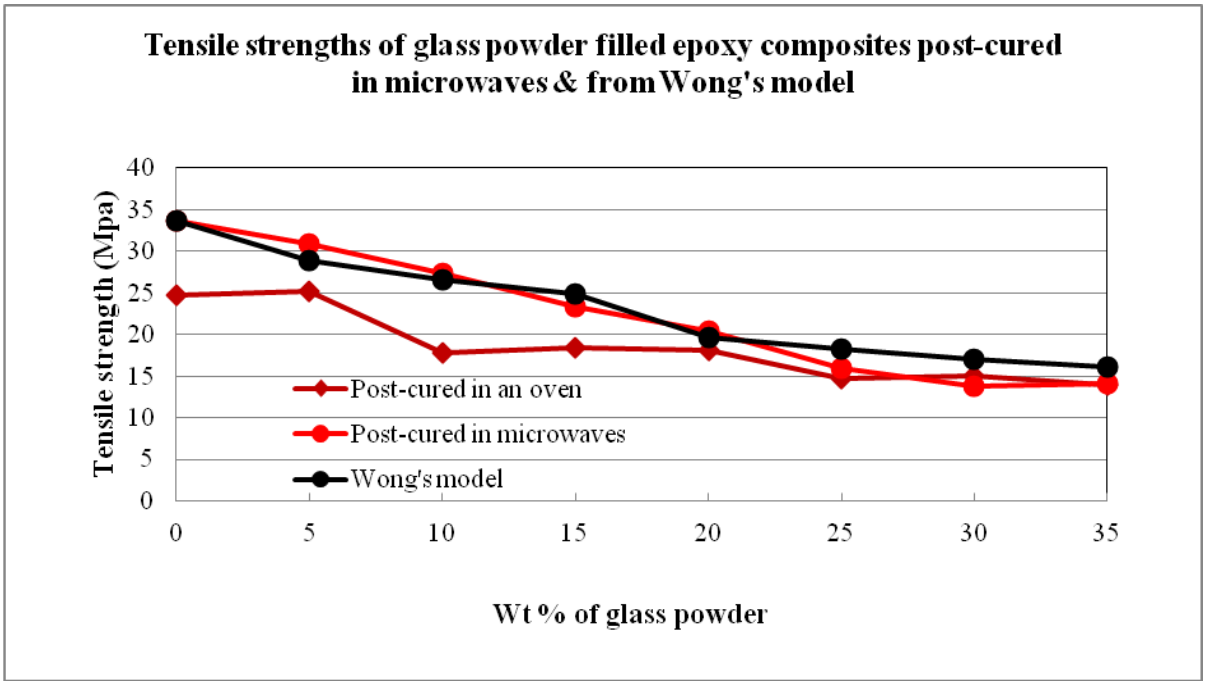

Figure 7: Tensile strengths of glass powder filled epoxy composites post-cured in microwaves and from Wong's model

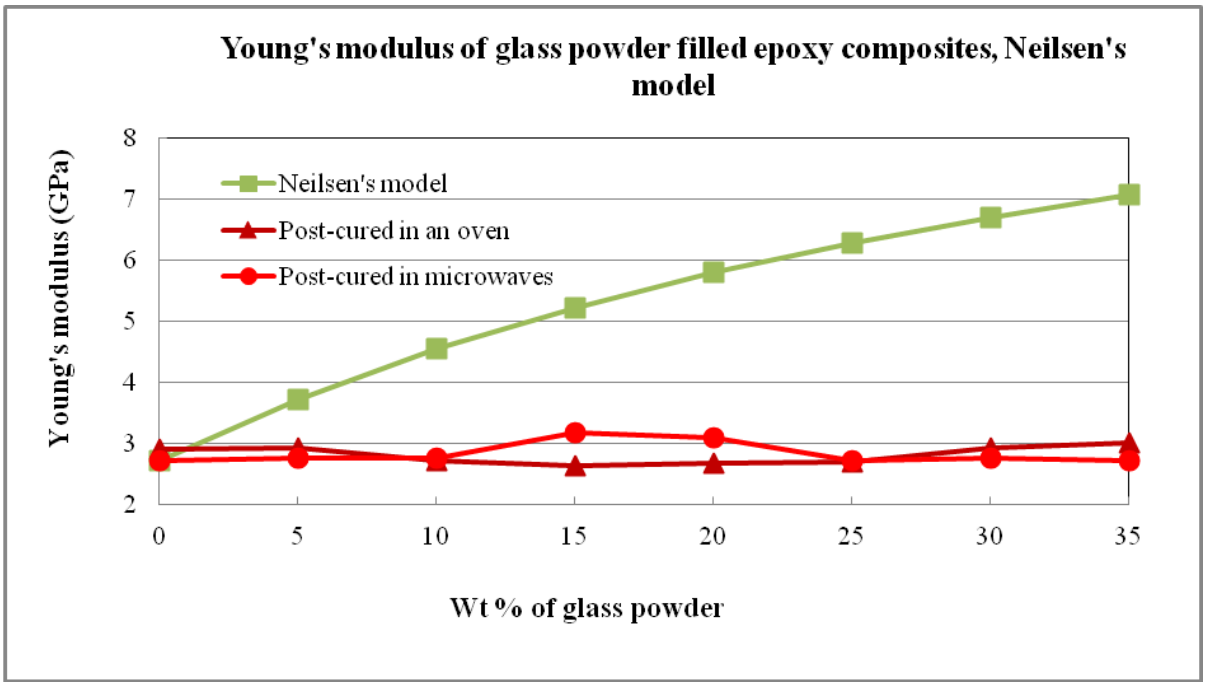

Figure 8: Young's moduli of glass powder filled composites of Neilsen's model, post-cured in an oven and post-cured in microwaves

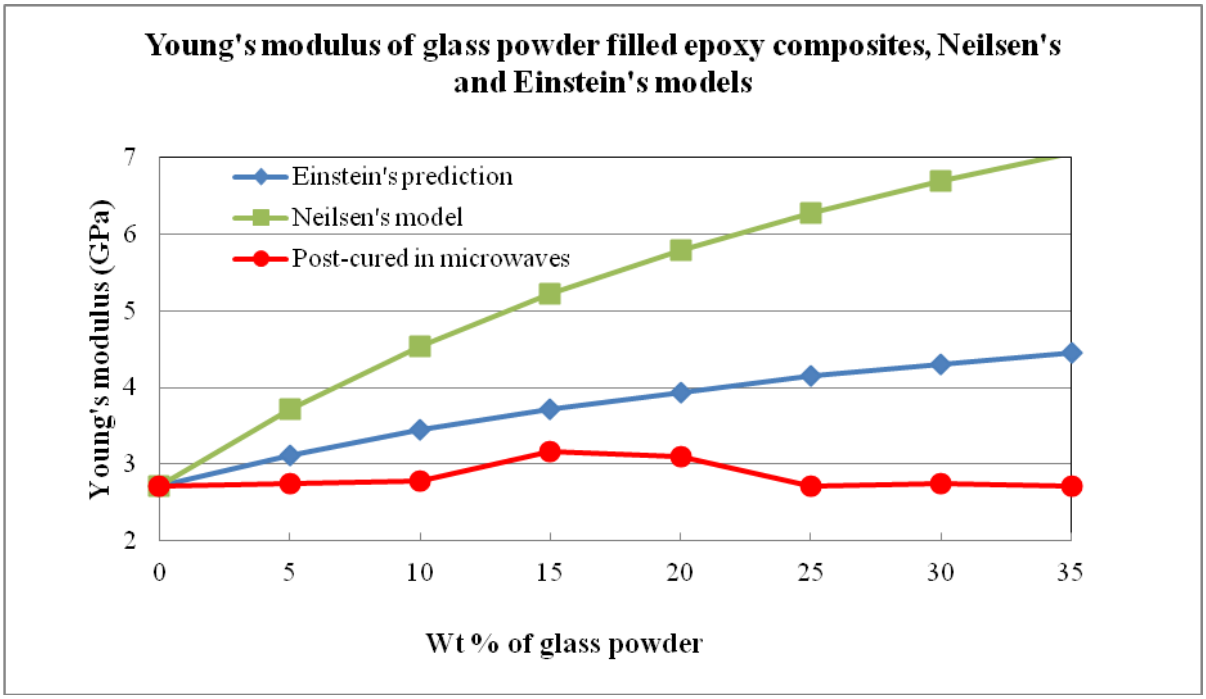

Figure 9: Young's moduli of glass powder filled composites of Neilsen's model, Einstein's prediction and post-cured in microwaves

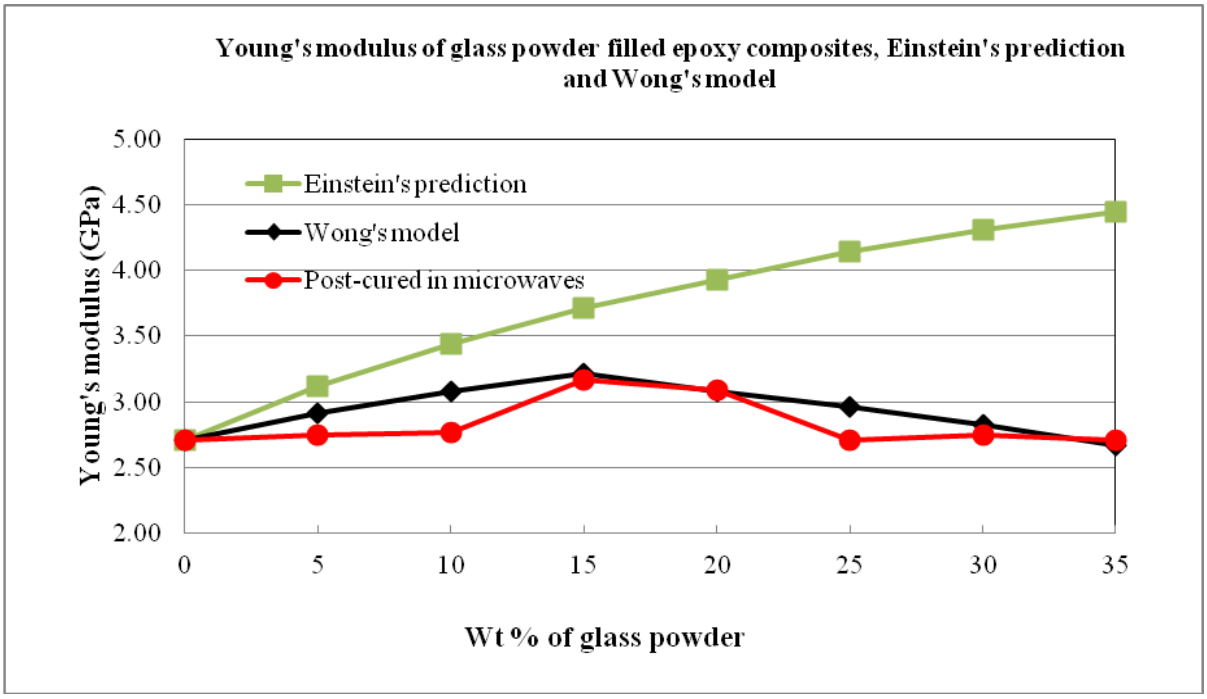

Figure 10: Young's moduli of glass powder filled composites of Wong's model, Einstein's prediction and post-cured in microwaves

Data Entry: ANOVA

Enter in the below set of boxes your data for each group (order makes no difference within a group) and then click on the **Calculate Now** button. Empty boxes will be ignored.

Calculate Now | Clear All

Data for Group *A*

A_{01}= 48.77 A_{02}= 47.72 A_{03}= 48.7 A_{04}= 44.68 A_{05}= 52.67

A_{06}= 57.37 A_{07}= A_{08}= A_{09}= A_{10}=

Data for Group *B*

B_{01}= 31.18 B_{02}= 26.02 B_{03}= 23.17 B_{04}= 18.29 B_{05}= 22.71

B_{06}= 29.46 B_{07}= B_{08}= B_{09}= B_{10}=

Data for Group *C*

C_{01}= 17.46 C_{02}= 14.75 C_{03}= 24.76 C_{04}= 14.35 C_{05}= 17.64

C_{06}= 17.80 C_{07}= C_{08}= C_{09}= C_{10}=

Data for Group *D*

D_{01}= 19.38 D_{02}= 17.14 D_{03}= 18.35 D_{04}= 15.38 D_{05}= 22.52

D_{06}= 17.35 D_{07}= D_{08}= D_{09}= D_{10}=

Data for Group *E*

E_{01}= 20.16 E_{02}= 17.38 E_{03}= 20.73 E_{04}= 15.96 E_{05}= 15.95

E_{06}= 18.62 E_{07}= E_{08}= E_{09}= E_{10}=

Data for Group *F*

F_{01}= 15.01 F_{02}= 15.79 F_{03}= 12.79 F_{04}= 13.99 F_{05}= 15.94

F_{06}= 14.77 F_{07}= F_{08}= F_{09}= F_{10}=

Data for Group *G*

G_{01}= 12.54 G_{02}= 11.01 G_{03}= 14.95 G_{04}= 16.7 G_{05}= 21.75

G_{06}= 13.3 G_{07}= 12.26 G_{08}= G_{09}= G_{10}=

Data for Group *H*

H_{01}= 14.68 H_{02}= 14.48 H_{03}= 13.09 H_{04}= 12.26 H_{05}= 14.98

H_{06}= 13.90 H_{07}= H_{08}= H_{09}= H_{10}=

Figure 11: Data entry for ANOVA for tensiel strength of the composites post-cured in microwaves

ANOVA: Results

The results of a ANOVA statistical test performed at 19:07 on 2-DEC-2012

Source of Variation	Sum of Squares	d.f.	Mean Squares	F
between	6109.	7	872.8	84.43
error	423.8	41	10.34	
total	6533.	48		

The probability of this result, assuming the null hypothesis, is 0.000

Group A: Number of items= 6
44.7 47.7 48.7 48.8 52.7 57.4

Mean = 50.0
95% confidence interval for Mean: 47.33 thru 52.64
Standard Deviation = 4.43
Hi = 57.4 Low = 44.7
Median = 48.7
Average Absolute Deviation from Median = 2.95

Group B: Number of items= 6
18.3 22.7 23.2 26.0 29.5 31.2

Mean = 25.1
95% confidence interval for Mean: 22.49 thru 27.79
Standard Deviation = 4.75
Hi = 31.2 Low = 18.3
Median = 24.6
Average Absolute Deviation from Median = 3.75

Group C: Number of items= 6
14.3 14.8 17.5 17.6 17.8 24.8

Mean = 17.8
95% confidence interval for Mean: 15.14 thru 20.44
Standard Deviation = 3.74
Hi = 24.8 Low = 14.3
Median = 17.6
Average Absolute Deviation from Median = 2.27

Group D: Number of items= 6
15.4 17.1 17.4 18.4 19.4 22.5

Mean = 18.4
95% confidence interval for Mean: 15.70 thru 21.00
Standard Deviation = 2.44
Hi = 22.5 Low = 15.4
Median = 17.9
Average Absolute Deviation from Median = 1.73

Group E: Number of items= 6
15.9 16.0 17.4 18.6 20.2 20.7

Mean = 18.1
95% confidence interval for Mean: 15.48 thru 20.78
Standard Deviation = 2.06
Hi = 20.7 Low = 15.9
Median = 18.0
Average Absolute Deviation from Median = 1.70

Group F: Number of items= 6
12.8 14.0 14.8 15.0 15.8 15.9

Mean = 14.7
95% confidence interval for Mean: 12.06 thru 17.37
Standard Deviation = 1.18
Hi = 15.9 Low = 12.8
Median = 14.9
Average Absolute Deviation from Median = 0.865

Group G: Number of items= 7
11.0 12.3 12.5 13.3 14.9 16.7 21.8

Mean = 14.6
95% confidence interval for Mean: 12.19 thru 17.10
Standard Deviation = 3.65
Hi = 21.8 Low = 11.0
Median = 13.3
Average Absolute Deviation from Median = 2.51

Group H: Number of items= 6
12.3 13.1 13.9 14.5 14.7 15.0

Mean = 13.9
95% confidence interval for Mean: 11.25 thru 16.55
Standard Deviation = 1.04
Hi = 15.0 Low = 12.3
Median = 14.2
Average Absolute Deviation from Median = 0.815

Figure 12: Resutls of ANOVA for tensiel strength of the composites post-cured in microwaves